



Influence of climate change on mosquito development and mosquito-borne diseases in Europe

Author(s): Becker N
Year: 2008
Journal: Parasitology Research. 103 (Suppl 1): S19-28

Abstract:

Mass occurrence of mosquitoes can have an immense impact on the quality of life in areas such as the Upper Rhine Valley. Therefore, biological and environmental measures are applied to prevent mass development in many regions of Europe. Despite successful prevention measures, the risk of contracting mosquito-borne viral diseases, such as West Nile fever, should be discounted in Central Europe. The transport of mosquitoes (e.g., through tire trade or within containers) into Germany has to be prevented. Individuals (tourists and immigrants) infected with imported vector-borne pathogens and parasites must be diagnosed and treated immediately. Mosquitoes and mosquito-borne diseases know no borders, and their spread is also a consequence of high mobility and globalization. Therefore, mosquito control requires international cooperation. People's increased mobility and international trade play a more important role in the dissemination of the vectors and their pathogens/parasites than increasing temperatures.

Source: <http://dx.doi.org/10.1007/s00436-008-1210-2>

Resource Description

Early Warning System: ☒

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

A focus of content

Exposure : ☒

weather or climate related pathway by which climate change affects health

Ecosystem Changes, Human Conflict/Displacement, Temperature

Temperature: Fluctuations

Geographic Feature: ☒

resource focuses on specific type of geography

None or Unspecified

Geographic Location: ☒

resource focuses on specific location

Climate Change and Human Health Literature Portal

Non-United States

Non-United States: Europe

European Region/Country: European Region, European Country

Other European Region: central Europe

Other European Country : germany

Health Impact: ☒

specification of health effect or disease related to climate change exposure

Infectious Disease

Infectious Disease: Vectorborne Disease

Vectorborne Disease: Mosquito-borne Disease

Mosquito-borne Disease: Chikungunya, Dengue, Malaria, West Nile Virus

Intervention: ☒

strategy to prepare for or reduce the impact of climate change on health

A focus of content

Mitigation/Adaptation: ☒

mitigation or adaptation strategy is a focus of resource

Adaptation

Resource Type: ☒

format or standard characteristic of resource

Review

Timescale: ☒

time period studied

Time Scale Unspecified

Vulnerability/Impact Assessment: ☒

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content